



Louisville Metro Air Pollution Control District
850 Barret Avenue
Louisville, Kentucky 40204-1745



Permit No.: C-0148-1000-14

Plant ID: 0148

Effective Date: [Click here to enter a date.](#)

Expiration Date: [Click here to enter a date.](#)

Louisville Medical Center Steam Plant
235 Abraham Flexner Way
Louisville, KY 40202

is authorized to construct the described process equipment by the Louisville Metro Air Pollution Control District. Authorization is based on information provided with the application submitted by the company and in accordance with applicable regulations and the conditions specified herein.

Process equipment description:

One (1) Onan diesel fuel emergency generator, model DFMB 1500, powered by a Cummins engine, model KTTA50-G2, rated at 1,500 kW (2,200 hp), with a maximum fuel consumption of 100 gal/hr

One (1) 7,000-gallon aboveground, horizontal, steel diesel fuel storage tank

Applicable Regulation(s): 2.03; 5.00; 5.01; 5.20; 5.21; 5.22; 5.23; 40 CFR 63, Subpart ZZZZ

Application No.: 62044
62308

Application Received: 1/20/2014
2/10/2014

Permit Writer: Dustin Gohs

Public Comment Date: 10/5/2014

{manager1}
Air Pollution Control Officer
{date1}

Permit Revisions

Revision No.	Date or Reissuance	Public Notice Date	Type	Emission Unit	Description
Initial	xx/xx/2014	10/5/2014	Initial	Entire Permit	Initial Construction

This permit covers only the provisions of Kentucky Revised Statutes Chapter 77 Air Pollution Control, the regulations of the Louisville Metro Air Pollution Control District (District) and, where appropriate, certain federal regulations. The issuance of this permit does not exempt any owner or operator to whom it has been issued from prosecution on account of the emission or issuance of any air contaminant caused or permitted by such owner or operator in violation of any of the provisions of KRS 77 or District regulations. Any permit shall be considered invalid if timely payment of applicable fees is not made after receipt of the statement of fees (SOF). The permit contains general permit conditions and specific permit conditions. General conditions are applicable unless a more stringent requirement is specified elsewhere in the permit.

General Conditions

- G1. The owner or operator of the affected facility covered by this permit shall notify the District of any process change, equipment change, material change, or change in method or hours of operation. This requirement is applicable to those changes (except for equipment change) that may have the potential for increasing the emission of air contaminants to a level in excess of the applicable limits or standards specified in this permit or District regulations.
- G2. The owner or operator shall obtain new or revised permits from the District when:
- (See District Regulation 2.16 for Title V sources. See District Regulation 2.17 for FEDOOP sources. See District Regulation 2.03 for other sources.)
- a. The company relocates to a different physical address.
 - b. The ownership of the company is changed.
 - c. The name of the company as shown on the permit is changed.
 - d. Permits are nearing expiration or have expired.
- G3. The owner or operator shall submit a timely application for changes according to G2. For minor sources only, the District does not require application for permit renewal. The District automatically commences the process of permit renewal for minor sources upon expiration. Timely renewal is not always achievable; therefore, the company is hereby authorized to continue operation in compliance with the latest District permit(s) until the District issues the renewed permit(s).
- G4. The owner or operator shall not be authorized to transfer ownership or responsibility of the permit. The District may transfer permits after appropriate notification (Form 100A) has been received and review has been made.
- G5. The owner or operator shall pay the required permit fees within 30 days after issuance of the SOF by the District, unless other arrangements have been proposed and accepted by the District.
- G6. This permit allows operation 8,760 hours per year unless specifically limited elsewhere in this permit.

- G7. The owner or operator shall submit emission inventory reports as required by Regulation 1.06.
- G8. The owner or operator shall timely report abnormal conditions or operational changes, which may cause excess emissions as required by Regulation 1.07.
- G9. Unless specified elsewhere in this permit, the owner or operator shall complete required monthly record keeping within 30 days following the end of each calendar month.
- G10. If a change in the Responsible Official (RO) occurs during the term of this permit, the owner or operator shall provide written notification (Form 100A) to the District within 30 calendar days of the date the RO change occurs.

Specific Conditions

S1. Standards (Regulation 2.03, section 6.1)

a. HAP

- i. An existing emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than fifteen (15) hours per calendar year for the purposes specified in 40 CFR §63.6640(f)(2)(ii) and §63.6640(f)(2)(iii) does not have to meet the requirements of 40 CFR 63, subpart ZZZZ, including the initial notification requirements. (40 CFR §63.6590(b)(3)(iii))
 - 1) The owner or operator shall not operate the emergency stationary RICE for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-03, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. (40 CFR §63.6640(f)(2)(ii))
 - 2) The owner or operator shall not operate the emergency stationary RICE for periods where there is a deviation of voltage or frequency of five (5) percent or greater below standard voltage or frequency. (40 CFR §63.6640(f)(2)(iii))
- ii. In order for the engine to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance, and testing, emergency demand response, and operation in non-emergency situations for fifty (50) hours per year, as described in 40 CFR §63.6640(f)(2)-(3), is prohibited. The owner or operator shall operate the engine according to the requirements in 40 CFR §63.6640(f)(2)-(3). (40 CFR §63.6640(f))¹
 - 1) The owner or operator may operate the emergency stationary RICE for a maximum of one hundred (100) hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the

¹ Federal Regulation 40 CFR §63.6640(f)(1) states that there is no operational time limit for the emergency stationary RICE during emergency situations. However, in order for stationary RICE to be in compliance with the STAR program, the stationary RICE is limited to 122 total hours of operation per year.

insurance company associated with the engine. The owner or operator may petition the District for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required in the owner or operator maintains records indicating that the federal, state, or local standards require maintenance and testing of the emergency RICE beyond one hundred (100) hours per calendar year. (40 CFR 63.6640(f)(2)(i))

- 2) The owner or operator may operate the emergency stationary RICE for up to fifty (50) hours per calendar year in non-emergency situations. The fifty (50) hours of operation in non-emergency situations are counted as part of the one hundred (100) hours per calendar year for maintenance and testing and emergency demand response provided in Specific Condition S1.a.ii.1). The fifty (50) hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR §63.6640(f)(3))

b. TAC

- i. The owner or operator shall not operate the emergency stationary RICE for more than 122 hours during any 12 consecutive month period. The 122 hours of operation includes time operated during emergency and non-emergency situations. (Regulation 5.21, section 4.3)
- ii. The owner or operator shall not allow emissions of any TAC to exceed environmentally acceptable (EA) levels, whether specifically established by modeling or determined by the District to be *de minimis*. (Regulations 5.00 and 5.21)

S2. Monitoring and Record Keeping (Regulation 2.03, section 6.1)

The owner or operator shall maintain the required records for a minimum of 5 years and make the records readily available to the District upon request.

a. HAP

- i. The owner or operator shall record, on the first working day after the end of each month, the engine's running time meter reading, and calculate (by difference) and record, the engine's operating time for the previous month and the total operating hours for the calendar year, to the nearest tenth of an hour, to demonstrate compliance with the annual hourly operation standards of Specific Conditions S1.a.ii.1) and S1.a.ii.2).
- ii. As a back-up to Specific Condition S2.a.i, the owner or operator shall, when needed, manually record, monthly, the number of hours the unit was

operated during that month. For days during the month on which the unit was not operated, a monthly record shall be made of each day that the unit did not run (DNR).

- iii. The owner or operator shall record the hours of operation of each unit during an emergency and record the situation that classified the hours of operation to be an emergency.

b. TAC

- i. The owner or operator shall record, on the first working day after the end of each month, the engine's running time meter reading, and calculate (by difference) and record, the engine's operating time and the 12 consecutive month rolling total for the previous month, to the nearest tenth of an hour, to demonstrate compliance with the annual hourly operation standard in Specific Condition S1.b.i.
- ii. The owner or operator shall maintain records sufficient to demonstrate environmental acceptability, including, but not limited to, MSDS, analysis of emissions, and/or modeling results.
- iii. The owner or operator shall re-evaluate the environmental acceptability and document the environmentally acceptable emissions if a new TAC is introduced or the content of a TAC in a raw material increases above *de minimis*.

S3. Reporting (Regulation 2.03, section 6.1)

The owner or operator shall submit semi-annual compliance reports that include the information in this section. All reports shall include the company name, plant ID number, and the beginning and ending date of the reporting period. The compliance reports shall clearly identify any deviation from a permit requirement. The compliance reports shall be postmarked within 60 days following the end of each reporting period. All semi-annual compliance reports shall include the following certification statement per Regulation 2.16, section 3.5.11.²

- "Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete".
- Signature and title of company responsible official.

² The semi-annual compliance reports are due on or before the following dates of each calendar year:

<u>Reporting Period</u>	<u>Report Due Date</u>
January 1 st through June 30 th	August 29 th
July 1 st through December 31 st	March 1 st

a. **HAP**

The owner or operator shall report any exceedances of the hours of operation limits for every month in the reporting period in which the total annual hours of operation exceeded the limits. If there are no exceedances during the reporting period, the owner or operator shall submit a negative declaration stating that there were no exceedances.

b. **TAC**

- i. The owner or operator shall report any exceedances of the hours of operation limits for every month in the reporting period in which the 12 consecutive month hour total exceeded the limits. If there are no exceedances during the reporting period, the owner or operator shall submit a negative declaration stating that there were no exceedances.
- ii. The owner or operator shall report any conditions that were inconsistent with those conditions analyzed in the most recent Environmental Acceptability Demonstration or a negative declaration stating that operations were within the conditions analyzed. This includes, but is not limited to, control device upset conditions.
- iii. For any conditions outside the analysis, the owner or operator shall re-analyze to determine whether these conditions comply with the STAR program. Changes to the air dispersion modeling program or meteorological data used in the most recent Environmental Acceptability Demonstration do not trigger the requirement to re-analyze. (Regulation 5.21, sections 4.22 – 4.24)
- iv. The owner or operator shall submit the re-evaluated EA demonstration to the District within 6 months after a change of a raw material as described in Specific Condition S2.b.iii.

Fee Comment

The construction permit fees are based on the construction fee for a Title V source (\$2,542.40), subject to a MACT (\$1,016.96), and de minimis TAC reviews (\$508.48). The total construction fees are \$4,067.84.